

Unit 4 Quiz 2 Study Guide
Exponents, PEMDAS, Squares and Square Roots

Exponents

1. Complete the table:

Exponent	Word Form	Expanded Form	Standard Form
2			
	Eight Squared		
		$3 \times 3 \times 3$	
3			

Simplify each expression. Show your work step by step.

2) $2^4 + (5^2 + 106) - \sqrt{36}$	3) $[(17 - 5)^2 \div (3^3 - 20 + 1)] - 5 + \sqrt{121}$
4) $9^2 + 4 \cdot 2^4 - \sqrt{100} \div 2$	5) $24 + (11 - 3)^2 \div 4$

Squares and Square Roots- Try to complete the following to the best of your ability **without** looking at your table. If you really want to test yourself- time yourself to try to get it all done in **4 minutes**.

2^2		$\sqrt{196}$	
4^2		$\sqrt{225}$	
6^2		$\sqrt{16}$	
7^2		$\sqrt{4}$	
3^2		$\sqrt{9}$	
12^2		$\sqrt{121}$	
11^2		$\sqrt{144}$	
5^2		$\sqrt{25}$	
8^2		$\sqrt{81}$	
9^2		$\sqrt{64}$	
13^2		$\sqrt{100}$	
10^2		$\sqrt{49}$	
15^2		$\sqrt{36}$	
14^2		$\sqrt{169}$	